PAGE	DRAWING NO.	SUBJECT		F		REVISION					
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2	SBP120KHC1M1-SP	SPECIFICATION SHEET									
3	SBP120KHC1M1-MM 1/2	GENERAL ARRANGEMENT									
4	SBP120KHC1M1-MM 2/2	MAIN MECHANICAL									
5	SBP120KHC1M1-ME	ELECTRO MECHANICAL									
6	SBP120KHC1M1-ES 1/6	POWER CIRCUIT									
7	SBP120KHC1M1-ES 2/6	CONTROL CIRCUIT- 1									
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9	SBP120KHC1M1-ES 4/6	CONTROL CIRCUIT- 3									
10	SBP120KHC1M1-ES 5/6	CONTROL CIRCUIT- 4									
11	SBP120KHC1M1-ES 6/6	CONTROL CIRCUIT- 5									
12	SBP120KHC1M1-BM	BILL OF MATERIAL									







# SERVICE BY-PASS PANEL SPECIFICATION

1. SYSTEM MAINS SUPPLY RATING	
	3x400V/230V at 50Hz 230V at 50Hz ☐ 15 kA ☐ 25 kA ☑ 30 kA
2. SYSTEM EARTHING	□ 45 kA
The system earthing is TN—S with 5 wires at bot	th inlets and outlets
3. STANDARDS	
The Service By-pass Panel is built according to	: IEC 439-1
4. ENVIRONMENTS	
The assembly is made for an ambient temperatu	re of : □ Max: +40°C and □ Min : −5°C
5. ENCLOSURE	
The enclosure of the assembly is: IP43D are The assembly material is: IP43D are Steel with	h Surface coating
6. POSITIONING	rithout Surface coating
The assembly is made for indoor installation on	: 🗌 Floor 🏼 Wall
7. DIMENSIONS AND WEIGHTS	
Height: 960 mm  Width: 750 mm  Depth: 235 mm  Weight: 50 kg	
8. CABLE ENTRIES	
Inlets:  Top, Left side  Top, Right side  Bottom, Left side  Bottom, Right side  Back side	Outlets:  Top, Left side  Top, Right side  Bottom, Left side  Bottom, Right side
9. CONNECTIONS	
Power Circuits : Input Output Component terminals	Control Circuits :
☐ Cable plug	

SILCON 120kW UPS

SERVICE BYPASE SPECIFICATION
120kW, 400V, 1M0D

PROJECT: SUBMITTAL DRAWINGS
SHEET 1 OF 1

CHECKED BY: MSALONHE 05/09/01

PROJECT: SUBMITTAL DRAWINGS
SHEET 1 OF 1

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SHEET 1 OF 1

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PROJECT: SUBMITTAL DRAWINGS
SHEET 1 OF 1

CHECKED BY: MSALONHE 05/09/01

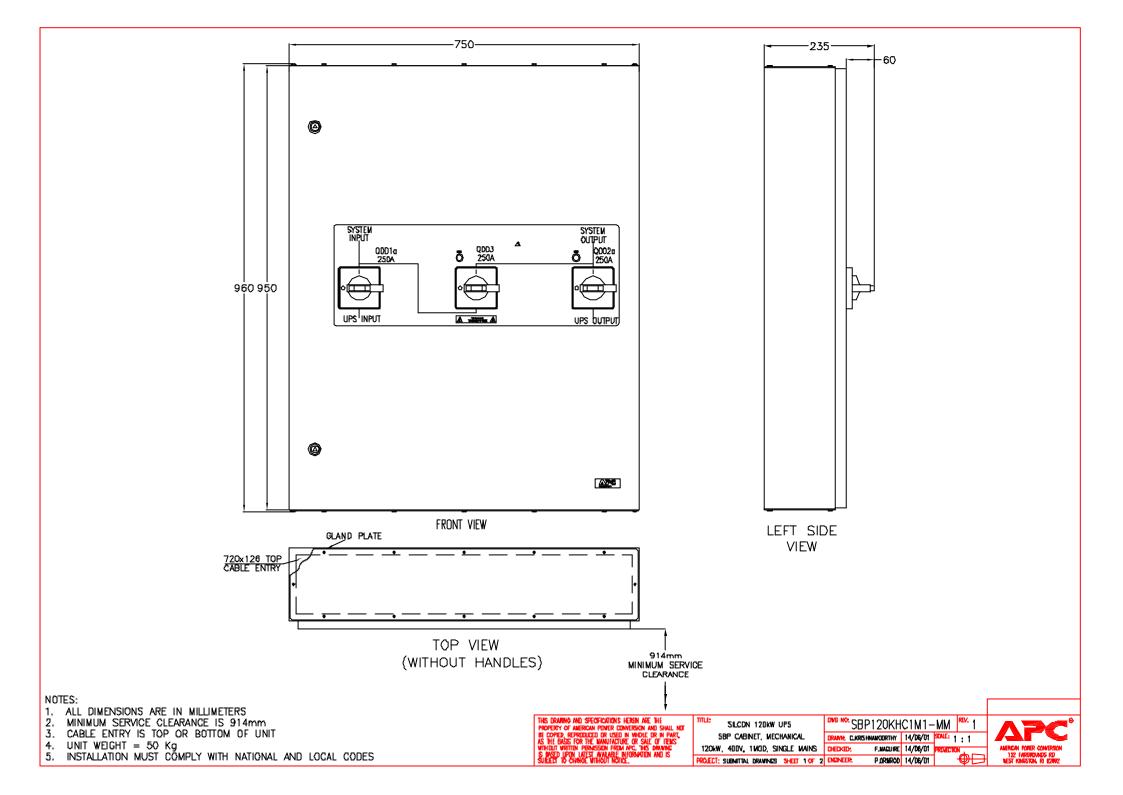
PROJECT: SUBMITTAL DRAWINGS
SHEET 1 OF 1

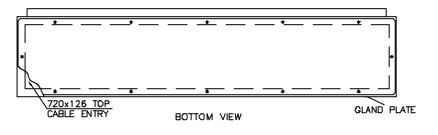
CHECKED BY: MSALONHE 05/09/01

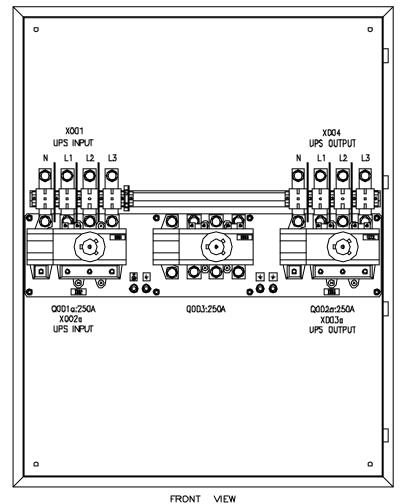
PROJECTION BY: MSALONHE 05/09/01

PRO

<sup>™© NO.</sup> SBP120KHC1M1—SP <sup>REV.</sup>—







(FRONT COVERS REMOVED)

LEFT SIDE VIEW

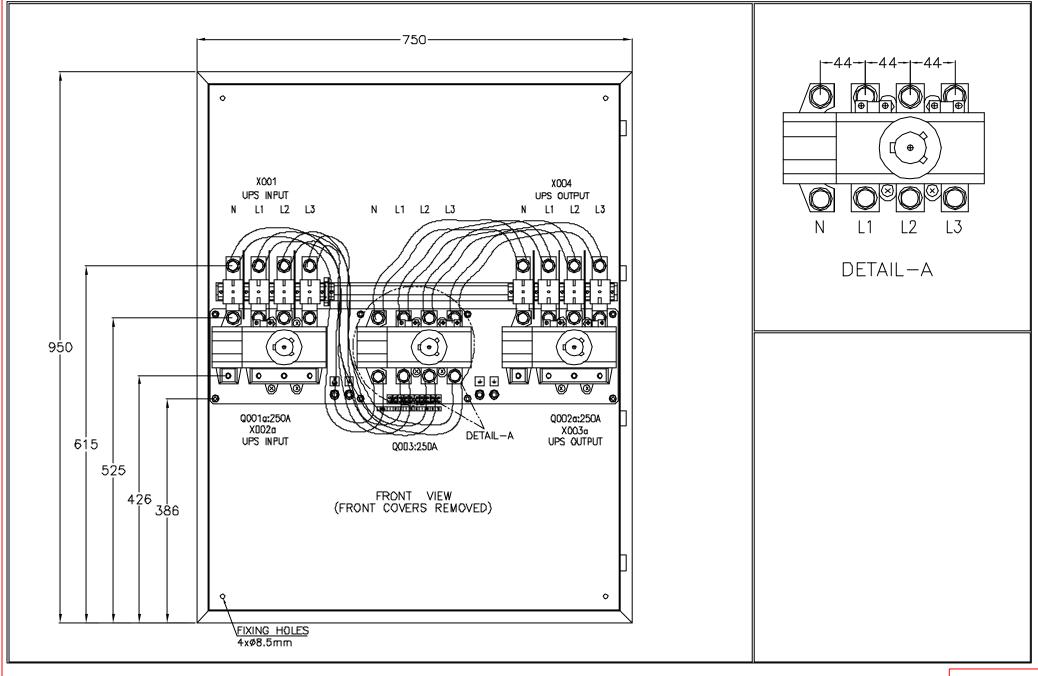
\*RDJECT: 9UBNITTAL DRAWINGS SHEET 2.0F 2 ENGINEER:

- 1. ALL DIMENSIONS ARE IN MILLIMETERS
- MINIMUM SERVICE CLEARANCE IS 914mm
- CABLE ENTRY IS TOP OR BOTTOM OF UNIT
- 4. UNIT WEIGHT = 50 Kg 5. INSTALLATION MUST COMPLY WITH NATIONAL AND LOCAL CODES

ONE NOT SBP120KHC1M1-MM SILCON 12DKW UPS 58P CABINET, NECHANICAL DRAMM: C.KRISHNAMGIDRTHY 02/11/01 PDAE: 1 : 1 12DkW, 4DOV, 1MOD, SINGLE MAINS CHECKED: F\_MAGUIRE 02/11/01

P.DRMRQD 02/11/01





### NOTES:

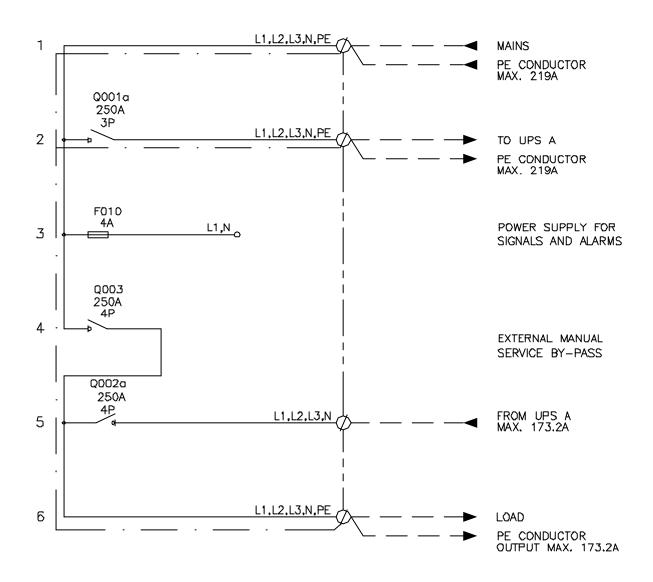
- 1. ALL DIMENSIONS ARE IN MILLIMETERS
- 2. ALL CABINETS ARE SHOWN WITHOUT DOORS AND MOUNTING BRACKET
- 3. CABLE ENTRY IS TOP OR BOTTOM OF UNIT
- 4. INSTALLATION MUST COMPLY WITH NATIONAL AND LOCAL CODES

THIS DRAWNO AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF AMERICAN POWER CONVESION AND SHALL NOT BE COPPED, REPRODUCED ON USED IN WHALE OR IN PART, AS THE BASS FOR THE MANIFACTURE OR SALE OF TENS WITHOUT WITHOUT PROPERTY OF THE MANIFACTURE OF SALE OF TENS OF THE MANIFACTURE OF THE OFFICE OF THE MANIFACTURE OF THE OFFICE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OF

TITLE:
SILCON 120kW LPS
SBP CABINET, ELECTRICAL
120kW, 400V, 1MOD, SNIGLE MAINS
PROJECT: SUBWITEL DRAWNOS SHEET 1 OF 1 | ENGINEER



## POWER CIRCUIT



### NOTES:

- 1, DASH-DOT (\_.\_.\_) LINES INSIDE OF SBP UNIT, REPRESENT PE-CONDUCTOR CONNECTION.
- 2. DASHED (---) LINES OUTSIDE OF SBP UNIT, REPRESENT CABLING PROVIDED BY OTHERS.

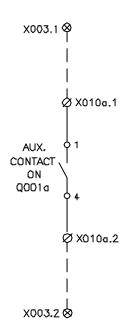
IT NO.
WRT.
EMS
G
5

TITLE: SILCON 120kW UPS
SERVICE BYPASS PANEL, ELECTRICAL SCHEMAT
120kW, 400V, 1NIDD
000 COT. 0100CT41 00400.000 005CT 4 0CC





1 1





Q001a UPS INPUT SWITCH (NO POS.)

NOTES:

1. XOO3 & TERMINALS LOCATED IN UPS.

2. XO10 Ø TERMINALS LOCATED IN SBP.

3. DASHED (- - -) LINES OUTSIDE OF SBP UNIT, REPRESENT CABLING PROVIDED BY OTHERS.

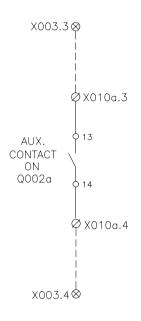
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TITLE: SILCON 120kW LIPS	OMB NOT	SBP120KH	IC1M1-	-ES	REV.
SERVICE BYPASS PANEL, ELECTRICAL SCHEMATIC	ORANNE.	JAYAPRAKASH	24/07/D1	BCALE:	NTS
120kW, 400V, 1MOD	CHECKED:	M.SALDIKHE	24/07/D1	PROJECT	IGN
PROJECT- SUBMITTAL DRAWINGS SHEET 2 OF 6	ENCINEER	PORMODE/SWACH	74/07/D1	l	<del>(D)</del>



## CONTROL CIRCUIT

L1 —



11 12 13 14 15 16 17 18 19 20

Q002a UPS OUTPUT SWITCH (NO POS.)

### NOTES:

- 1. XOO3 ⊗ TERMINALS LOCATED IN UPS.
- 2. X010 Ø TERMINALS LOCATED IN SBP.
- 3. DASHED (---) LINES OUTSIDE OF SBP UNIT, REPRESENT CABLING PROVIDED BY OTHERS.

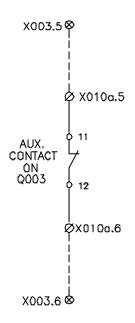
THIS DRAWING AND SPECIFICATIONS HEREIN ARE THE PROPERTY OF AMERICAN POWER CONVERSION AND SHALL NOT BE COPIED, REPRODUCED OR USED IN WHOLE OR IN PART, AS THE BASIS FOR THE MANUFACTURE OR SALE OF ITEMS WITHOUT WRITTER PERMISSION FROM APC, THIS ORWINNO IS BASED UPON LATEST AWALABLE. NEFORATION AND IS SUBJECT TO GHANCE WITHOUT MOTICE.



CHECKED: M.SALOKHE 24/07/01 PROJECTION PROJECT: SUBMITTAL DRAWINGS SHEET 3 OF 6 ENGINEER: P.ORMROD/S.WAGH 24/07/01



11.



N 21 22 23 24 25 26 27 28 29 30

Q003 SERVICE BY-PASS SWITCH (NC POS.) UPS A

### NOTES:

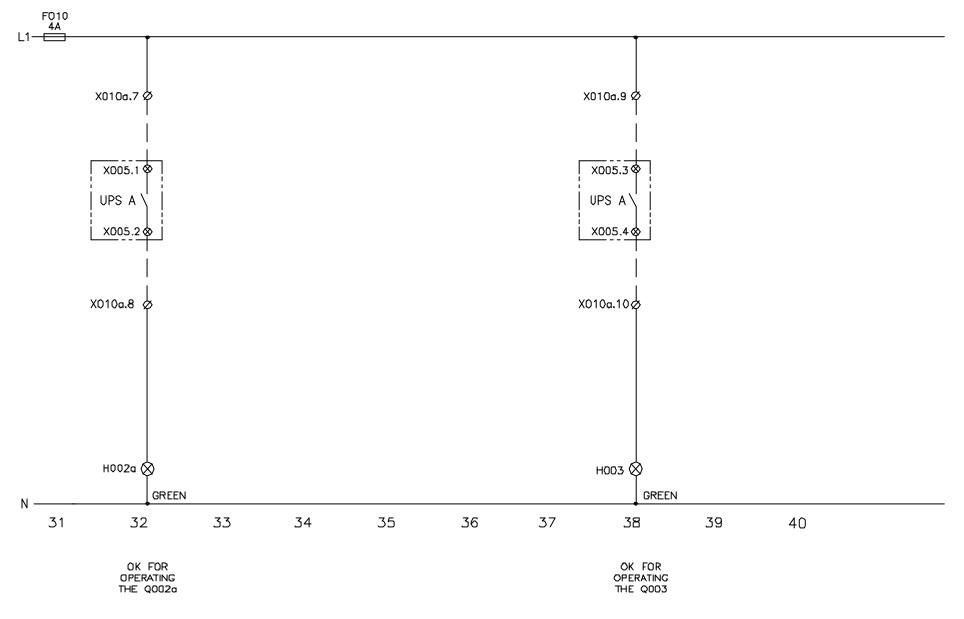
- 1. XOO3 ⊗ TERMINALS LOCATED IN UPS.
- 2. XO10 Ø TERMINALS LOCATED IN SBP.
- 3. DASHED (- -) LINES OUTSIDE OF SBP UNIT, REPRESENT CABLING PROVIDED BY OTHERS.

THIS DRAWNO AND SPECIFICATIONS HEREN ARE THE PROPERTY OF ALERGAN POWER CONVERSION AND SHALL NOT BE COPEED, REPRODUCED OF USED IN WHOLE OF IN PART, AS THE BASS FOR THE MANIFACTURE OF SALE OF TENS VIRTUAL WITHOUT WITHOUT PROPERTY OF THE MANIFACTURE OF SALE OF TENS VIRTUAL THE SHAVING IS BYSID LIPON LIFEST MANAGE. INFORMATION AND IS SALECT FOR CHARSE WITHOUT KINDS.

TITLE: SILCON 120kW LIPS	OVB NO:	SBP120KH	IC1M1-	ES	REV.
SERVICE BYPASS PANEL, ELEGTRICAL SCHEMATIC	DRAWNE	JAYAPRAKASH	24/07/01	BCALE: N	ITS
120kw, 4dav, 1mdo	CHECKEDA	M.SALDKHE	24/07/01	PROJESTICI	<u> </u>
PROJECT - SUBMITTAL DRAWINGS SHEET 4 OF 6	<b>ENGINEER:</b>	P.ORMROD/S.WAGH	24/07/01		<del>(D) </del>



## CONTROL CIRCUIT



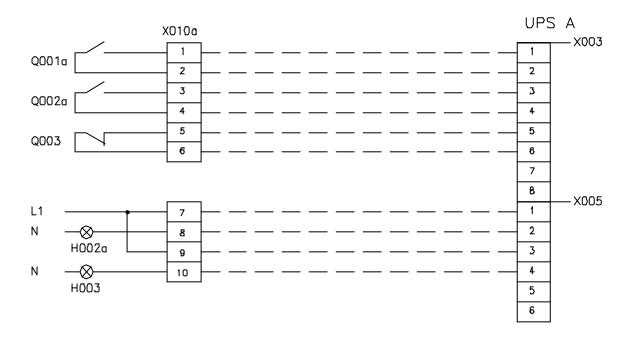
NOTES:

1. DASHED (---) LINES DUTSIDE OF SBP UNIT, REPRESENT CABLING PROVIDED BY OTHERS.

		3P120KH			
SERVICE BYPASS PANEL, ELECTRICAL SCHEMATIC	ORANNE.	JAYAPRAKASH	24/07/01	BCALE: N	ITS
120kW, 40DV, 1MDD	CHECKEDA	M.SALOKHE	24/07/01	PROJECTIO	<del></del>
PROJECT: SUBMITTAL DRAWINGS SHEET 5 OF 6	ENGINEER:	P.ORNROB/S.WAGH	24/07/01		<del>- PL</del>



## CONTROL CIRCUIT



### NOTES:

1. DASHED ( $\_$   $\_$ ) LINES OUTSIDE OF SBP UNIT, REPRESENT CABLING PROVIDED BY OTHERS.

SERVICE BYPASS PANEL, ELECTRICAL SCHEMATIC DRAWN BY: AVAPRAKASH | 24/07/01 PROJECTION | 120kW, 400V, 1 MOID | CHECKED BY: NLSALGKHE 24/07/01 PROJECTION | KOJECT: 9UBMITTAL DRAWINGS SHEET 6 OF 6 ENGINEER: P.ORWROW/SWARH 24/07/Q1



SI. No.	Part No.	Description	U. O. M	Qty.
Q1	0G-SBP3120E	GENERIC SUB-ASSY, SBP-3120E	NO.	01
02	560-0031	SWITCH ASY 250A 4P 1NO AUX	NO.	<b>Q1</b>
03	560-0032	SW ASY 250A INO INC AUX W/F	NO.	01
04	560-0029	SWITCH ASY 25DA 4P 1NO 1NO AUX	NO.	01
<b>05</b>	570-0001	INDICATR NEON GRN 230V PNL MNT	NO.	<b>0</b> 2
Œ	511-DO04	FUSE FAST 4A 250VAC 5X20MN	NO.	01
07	740-0016	TERM BLK 2P FUSE DIN MNT BARR	NO.	01
OB.	B20-D004	CABLE TIE ADHESIVE	NO.	10
O9	804-0010	SCREW 4-40X3/4" PAN EXT SEN	NO.	02
10	804-0600	SCREW 6X1/4 FLANGE HEAD FORM F	NO.	24
11	B71-4017	CARTON SBP3120E/175A-SS	NO.	01
12	871-4018	FOAN INSERT SBP3120E/175-SS	NO.	01
13	990-4004	INSTALL SHEET SBP-300E	NO.	01
14	B11-1204	WASHER SPRING M12	NO.	16
15	B11-1202	WASHER N12	NO.	16
16	803-4830	BOLT HEX M8X30MM	NO.	04
17	B03-201B	NUT N8	NO.	80
18	B11-D602	WASHER FLT N6X3MM THK DIN7349	NO.	12
19	811-0803	WASHER LOCK M& SPLIT	NO.	<b>04</b>
2D	B11-D805	WASHER NB EXT SERRATED LOCK ZP	NO.	04
21	803-2006	NUT N6 HEX STEEL	NO.	18
22	B03-D016	WASHER NG FLAT	NO.	18
23	803-0514	SCREW N5X10MN PH POZI 0059250	NO.	12
24	B11-0505	WASHER NO SERRATED LOCK	NO.	12
25	B11-D601	WASHER SPLIT M6 DIN79BO	NO.	12
28	811-0604	WASHER NG EXT SERRATED 1K ZP	NO.	06
27	803-120D	NUT N12 HEX STEEL DIN 934 59553	NO.	08
28	B11-1207	WASHER LOCK M12 EXT TOOTH	NO.	16
29	DWD1496	WIRE# 10 G/Y 5B5NM	NO.	01
30	OW01497	WIRE# 10 G/Y 440NM M6RNG/N6RNG	NO.	01
31	OW0149B	WIRE#1D G/Y 41DMM MBRNG/N6RNG	NO.	01
32	OW01493	WIRE#3/D⊞LK 460NM(N12-M12)9D	NO.	04
33	OWO1494	WIRE#3/08LK 360NM (M12-M12)90	NO.	04
34	DW5202	WIRING SIGNAL LIDON SBP3120E	NO.	01
35	OM-1056	ENCLOSURE SBP-3120E	NO.	01
36	B72-D03D	BAC ZIP-LOCKX12 4 MIL	NO.	01
37	685-431B	LABEL SBP FRONT 610X215 3PHASE	NO.	01
3B	885-70158	label nodel/serial#	NO.	01
39	B7O-8490	RAIL NNTG TYPE G TO DIN46277/1	NO.	01
4D	740-0049	TERM BLCK 2P LNK 120MM W.SCRWS	NO.	80
41	740-0052	BARRIER FOR 75D-D049	NO.	06
42	740-0050	TRM BLK END BRCKT G-RAIL	NO.	13
43	B03-1226	BOLT M12X25 STEEL HEX HEAD	NO.	BO

SI. No.	Part No.	Description	U. O. M	Qty.
	850-05028	STRIP FDAM RUBBER 10X3MN	m	0.168
	885-4314A	LABEL SBP-300E STANDARD SET	NO.	01
46	885-0098-A	LABEL BOX GENERIC W/APC LOGO	NO.	<b>Q1</b>
47	885-0610	BOX LABEL 4.4X8.5	NO.	<b>Q1</b>
48	885-4479	LABEL SBP120KHC1N1	NO.	01
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